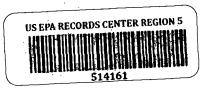5HR-TUB

Mr. Michael Hansel
MPCA Regulatory Compliance Section
1935 West County Road B-2
Roseville, Minnesota 55113

Dear Mr. Hansel:

This letter regards the July 12, 1982 transmittal to you from Mr. Denis
Foerst of the United States Environmental Protection Agency (USEPA)
Monitoring and Surveillance Laboratory (EMSL) concerning the Quality
Control/Quality Assurance (QA/QC) protocol to be followed in the CH$_2$M-Hill
Contract. I appreciate the responsiveness of the EMSL and consider the
report to be critical to the success of, and the techniques used in, the
bench and pilot testing prescribed in the contract.

In response to Mr. Foerst's letter, I have attached a February 10, 1982
memo from Robert Laidlaw, of the EPA Office of Enforcement, National En-
forcement Investigations Center (NEIC) to Thomas Yeates, Deputy Director,
Environmental Services Division, Region V EPA. This memo highlights the EPA
Chain of Custody procedures and some common mistakes. I have not enclosed
the lengthy document cited in the attached memo, published in October, 1980,
for EPA sample control and chain of custody procedures. Nevertheless, the
contractor should be aware of its provisions. Perhaps, Mr. Foerst could
transmit a copy if CH$_2$M-Hill needs it.

I am anxious to see the precision of the methods used by Capsule Labs and
Ms. Brenda Kimble, in order to compare them to the method used by CH$_2$M-Hill.
Since the methods appear to be similar, we should incorporate the most pre-
cise method into the testing conducted by CH$_2$M-Hill. It is essential
that we control the variation in the methodology since the amount of impre-
cision could contribute multiplicatively to sampling, analytical, and treat-
ment error.

Finally, I think it is important to stipulate in the CH$_2$M-Hill Contract that
the QA/QC reports be submitted to EMSL on a weekly basis to assure precision
is reviewed and maintained in the analyses.

Sincerely yours,

Paul Bitter
On-Scene Coordinator

Attachment

cc: Denis Foerst,   EMSL
    M. Kasakowski, WH527-E
    R. Leininger,   5C